TSG-RAN Working Group 3, meeting #6
Sophia Antipolis, France, 23rd – 27th, 1999.

TSG R3#6(99)924

Agenda Item: 15.1 and 16.1

Source: **Ericsson**

Title: Power Control parameters on Iur and Iub.

1. Introduction

This contribution aims to clarify some inconsistencies regarding the power information in various messages in [25.423] and [25.433].

2. Proposals

The tables below shows the proposed changes in [25.423] and [25.433] together with motivations. The editors are proposed to update the specifications accordingly.

2.1   Proposed Changes to 25.423

Message	Currently have		Should have		Motivation
RL Setup Request	UL Max Eb/N0	FFS	UL Max Eb/N0	M	Used by admission control. FFS should be removed.
	UL Min Eb/N0	FFS	UL Min Eb/N0	M	Used by admission control. FFS should be removed.
RL Addition	UL Max Eb/N0	FFS	*Parameter Deleted*		UL Max Eb/N0 should be the same as for the first RL and is therefore known by the DRNC.
	UL Min Eb/N0	FFS	*Parameter Deleted*		UL Min Eb/N0 should be the same as for the first RL and is therefore known by the DRNC.
	DL Ref Power	O	DL Ref Power	M	A RL Addition on Iur might result in a RL Setup on Iub, where DL Ref Power is mandatory.
RL Reconfiguration Prepare	UL Max Eb/N0	FFS	UL Max Eb/N0	M	Used by admission control. FFS should be removed.
	UL Min Eb/N0	FFS	UL Min Eb/N0	M	Used by admission control. FFS should be removed.
	DL Ref Power	FFS	*Parameter Deleted*		RL Reconfiguration is used to add or remove a transport channel. This has nothing to do with the power drifting problem.
RL Reconfiguration	UL Max Eb/N0	FFS	UL Max Eb/N0	M	Used by admission control. FFS should be removed.
	UL Min Eb/N0	FFS	UL Min Eb/N0	M	Used by admission control. FFS should be removed.

	DL Ref Power	O	*Parameter Deleted*	RL Reconfiguration is used to add or remove a transport channel. This has nothing to do with the power drifting problem.

9.2.20 DL Reference Power

Reference transmission power which is <u>the SRNC requested downlink power to be</u> used by the ~~fast downlink closed~~<u>downlink inner</u> loop power control to eliminate the power drifting problem.

2.2 Proposed Changes to 25.433

Message	Currently have		Should have		Motivation
RL Addition Request	(initial) DL transmission power	M	*Parameter Deleted*		During a RL Addition, the new links power should be similar to the other links in that Node B.
RL Reconfiguration Prepare	DL Ref Power	FFS	*Parameter Deleted*		RL Reconfiguration is used to add or remove a transport channel. This has nothing to do with the power drifting problem.
	Parameter Missing		Max DL Power	O	When a new transport channel is added or removed we might want to reconfigure the allowed window for the power control. *This parameter is per DL channelization code (should be indented).*
	Parameter Missing		Min DL Power	O	When a new transport channel is added or removed we might want to reconfigure the allowed window for the power control. *This parameter is per DL channelization code (should be indented).*
RL Reconfiguration Request	DL Ref Power	FFS	*Parameter Deleted*		RL Reconfiguration is used to add or remove a transport channel. This has nothing to do with the power drifting problem.
	Parameter Missing		Max DL Power	O	When a new transport channel is added or removed we might want to reconfigure the allowed window for the power control. *This parameter is per DL channelization code (should be indented).*
	Parameter Missing		Min DL Power	O	When a new transport channel is added or removed we might want to reconfigure the allowed window for the power control. *This parameter is per DL channelization code (should be indented).*

9.2.22 DL Reference Power

Reference transmission power which is the CRNC requested downlink power to be used by the downlink inner loop power control to eliminate the power drifting problem.

~~The DL Reference Power indicates the reference transmission power used by the fast UL inner loop power control to eliminate the power drifting problem. This is FFS and depends on the outcome of Study Item Iur/1: Signalling for UL Outer Loop Power Control and DL Power Balancing.~~

3. References

[25.423]   UMTS 25.423 UTRAN Iur Interface RNSAP Signalling, v.1.2.1

[25.433]   UMTS 25.433 NBAP Specification, v.1.1.1